

**MATERIAL SAFETY DATA SHEET****QUICK IDENTIFIER (In Plant Common Name)**

Dura-Skrim R20WW R20WWK

**Manufacturer's Name** RAVEN INDUSTRIES INC.  
**Address** P.O. Box 5107  
 Sioux Falls, SD 57117

**Emergency Telephone Numbers** 800-635-3456  
 605-335-0174  
**Other Information** 1812 "E" Avenue  
 Sioux Falls, SD 57104

**Signature of Person Responsible for Preparation** 

**Date Prepared** June 1, 2006

**Section 1 - IDENTITY**

**Common Name: (Used on Label)** Dura-Skrim R20WW  
**(Trade Name Synonyms)**  
**Chemical Name** Copolymer of Ethylene and Octene-1 film 95% Polyester fiber 5%  
**Formula** (CH<sub>2</sub> - CH<sub>2</sub>)<sub>n</sub>

**CAS Number(s)** 26221-73-8  
 25038-59-9  
**Chemical Family** Polyolefin Polyester

**Section 2 - HAZARDOUS INGREDIENTS**

**Principal Hazardous Component(s) - Chemical and Common Name % Threshold Limit Value (units)**  
 None known

**Section 3 - PHYSICAL & CHEMICAL CHARACTERISTICS (Fire & Explosion Data)**

**Boiling Point** Not Applicable (N/A) **Specific Gravity** N/A **Vapor Pressure, mmHg** N/A  
**Percent Volatile by Volume (%)** N/A **Vapor Density** N/A **Evaporation Rate** N/A  
**Solubility in Water** Insoluble in Water **Reactivity in Water** N/A  
**Appearance and Odor** White, odorless reinforced plastic film.  
**Flash Point** N/A **Flammability Limits in Air, by Volume (%)** Lower N/A Upper N/A **Auto Ignition Temperature** >660°F (estimate based upon raw material AIT)  
**Extinguisher Media** Use water spray, dry chemical  
**Special Fire Fighting Proced.** Fire fighters should wear a self-contained breathing apparatus when there is a possibility of exposure to smoke, fumes or hazardous decomposition products. If possible, water should be applied as a spray from a fogging nozzle since this material is a surface burning material.  
**Unusual Fire and Explosion Hazards** None Known

**Section 4 - PHYSICAL HAZARDS**

<b>Stability</b>	Unstable	<b>Conditions to Avoid</b>	Temperatures over 570°F may release combustible gases.
	Stable	X	

**Incompatibility (Materials to Avoid)** none known

**Hazardous Decomposition Products** Combustion will produce CO<sub>2</sub>, CO and organic vapors

<b>Hazardous Polymerization</b>	May Occur	X	<b>Conditions to Avoid</b>	N/A
	Will not Occur			

**Section 5 - HEALTH HAZARDS****Threshold** N/A**Limit Value****Signs and Symptoms of Exposure**

<b>1. Acute</b>	N/A	<b>2. Chronic</b>	Not Determined
<b>Overexposure</b>		<b>Overexposure</b>	

**Medical Conditions Generally** There are no known medical conditions aggravated by exposure to this product.**Aggravated by Exposure**

<b>Chemical Listed as Carcinogen</b>	<b>National Toxicology</b>	Not	<b>L.A.R.C.</b>	Not	<b>OSHA</b>	Not
<b>or Potential Carcinogen</b>	<b>Program</b>	Listed	<b>Monographs</b>	Listed		Listed

<b>OSHA Permissible</b>	None	<b>ACGIH Threshold</b>	None	<b>Other Expos.</b>	None
<b>Exposure Limit</b>		<b>Limit Value</b>		<b>Limit Used</b>	

**Emergency and** Most problems will result from exposure to molten materials.**First Aid Procedures****1. Inhalation** Immediately remove victim from area to fresh air. Seek medical attention.**2. Eyes** If contacted by molten material, immediately flush eyes with plenty of cool water for at least 15 minutes. Do not permit victim to rub eyes. Immediately seek medical attention.**3. Skin** If contact by molten material, cool immediately with cool water. Do not attempt to remove any solidified material. Immediately seek medical attention.**4. Ingestion** N/A**Section 6 - SPECIAL PROTECTION INFORMATION****Respiratory Protection****(Specify Type)** N/A

<b>Ventilation</b>	<b>Local Exhaust</b>	<b>Mechanical (General)</b>	<b>Special</b>	<b>Other</b>
N/A	N/A	N/A	N/A	N/A

<b>Protective</b>	During thermal processing	<b>Eye</b>	During thermal processing
<b>Gloves</b>		<b>Protection</b>	

**Other Protective** N/A**Clothing or Equipment****Section 7 - SPECIAL PRECAUTIONS AND SPILL / LEAK PROCEDURES****Precautions to be Taken****in Handling and Storage** This product should be stored in a manner that they are not exposed to heat and sources of ignition. A static charge may be present on finished products.**Other**  
**Precautions** None**Steps to be Taken in Case** None**Material is Released or Spilled****Waste Disposal****Methods** Dispose in accordance with local, state and federal regulations**IMPORTANT - Do not leave blank spaces. If information is unavailable, unknown or does not apply, so indicate**